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Jun 16, 1993

DERWENT-ACC-NO: 1993-215789

DERWENT-WEEK: 199618

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TITLE: Synthesis of silico-alumino titanate isomorphous to zeolite beta - by mixing hydrolysed titanium di:oxide in aq. tetra:ethyl:ammonium, silica and e.g. alumina, heating obtd. gel in autoclave and calcining silico-alumino-titanate

## PATENT-ASSIGNEE:

ASSIGNEE	CODE
UNIV VALENCIA POLITECNICA	UYVAN

PRIORITY-DATA: 1991ES-0001798 (July 31, 1991)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>ES 2037596 A1</u>	June 16, 1993		000	B01J021/06
<u>ES 2037596 B1</u>	February 16, 1994		000	B01J021/06

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
ES 2037596A1	July 31, 1991	1991ES-0001798	
ES 2037596B1	July 31, 1991	1991ES-0001798	

INT-CL (IPC): B01J 21/06; C07B 33/00

ABSTRACTED-PUB-NO: ES 2037596A

## BASIC-ABSTRACT:

Synthesis of silicoaluminotitanate isomorphous to zeolite beta comprises hydrolysing a source of TiO<sub>2</sub> with aq. tetraethylammonium, diluting with water and the prod. soln. hydrolyses the reactive source of Y (e.g. silica). The mixt. obtd. is treated with a soln. contg. a source of X2O<sub>3</sub>(Al<sub>2</sub>O<sub>3</sub> or (NO<sub>3</sub>)<sub>3</sub>AL) and is autoclaved at 80-120 deg.C.

USE/ADVANTAGE - The prod. is isomorphous to zeolite beta and is activated by calcination at 350-800 deg.C. It can be used for selective oxidn. of organic cpds., esp. for converting alkanes or cycloalkanes to alcohols and ketones, phenol to catechol and hydroquinone and alkenes to epoxides.

TITLE-TERMS: SYNTHESIS SILICO ALUMINO TITANATE ISOMORPHOUS ZEOLITE BETA MIX HYDROLYSIS TITANIUM DI OXIDE AQUEOUS TETRA ETHYL AMMONIUM SILICA ALUMINA HEAT OBTAIN GEL AUTOCLAVE CALCINE SILICO ALUMINO TITANATE

## ADDL-INDEXING-TERMS:

SELECTIVE OXIDN. OF ORGANIC CPDS.

DERWENT-CLASS: E19 E32 J04

CPI-CODES: E31-P02A; J04-E04;

SECONDARY-ACC-NO:

**Synthesis of silico-alumino titanate isomorphous to zeolite beta - by mixing hydrolysed titanium dioxide in aq. tetraethylammonium, silica and e.g. alumina, heating obtd. gel in autoclave and calcining silico-alumino-titanate**

**Patent Assignee:** UNIV VALENCIA POLITECNICA

#### Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
ES 2037596	A1	19930616	ES 911798	A	19910731	199327	B
ES 2037596	B1	19940216	ES 911798	A	19910731	199411	

**Priority Applications (Number Kind Date):** ES 911798 A ( 19910731)

#### Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
ES 2037596	A1			B01J-021/06	
ES 2037596	B1			B01J-021/06	

#### Abstract:

ES 2037596 A

Synthesis of silicoaluminotitanate isomorphous to zeolite beta comprises hydrolysing a source of TiO<sub>2</sub> with aq. tetraethylammonium, diluting with water and the prod. soln. hydrolyses the reactive source of Y (e.g. silica). The mixt. obtd. is treated with a soln. contg. a source of X<sub>2</sub>O<sub>3</sub>(Al<sub>2</sub>O<sub>3</sub> or (NO<sub>3</sub>)<sub>3</sub>AL) and is autoclaved at 80-120 deg.C.

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